

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
IOWA, Northeast				
(IA-Z008) MITCHELL, (IA-Z018) FLOYD				
	05/02/13 00:00 CST		0	Heavy Snow
	05/02/13 15:00 CST		0	
<p>A narrow but intense band of snow set up across portions of northeast Iowa during the evening hours of May 1st and continued into the 2nd. While most of northeast Iowa ended up receiving some snow from this system, a band of 10 inches or more occurred across portions of Floyd and Mitchell Counties. New Iowa state snowfall records for the month of May were established with a two day total of 13.0 inches on May 2nd and 3rd in Osage (Mitchell County). This also established a new record for the amount of snow to fall during the entire month of May. Other notable snowfall totals were 10 inches in Charles City (Floyd County). The heavy wet snow caused power outages with 5000 customers across northern Iowa losing power.</p>				
CLAYTON COUNTY --- 0.7 NNE MC GREGOR [43.03, -91.17], 0.6 NE MC GREGOR [43.03, -91.17], 0.5 NE MC GREGOR [43.02, -91.17], 0.6 ENE MC GREGOR [43.02, -91.17], 0.8 NNE MC GREGOR [43.03, -91.17]				
	05/09/13 13:45 CST		0	Flood (due to Heavy Rain / Snow Melt)
	05/13/13 08:00 CST		0	Source: River/Stream Gage
<p>Runoff from snow melt and heavy rain that moved down the Mississippi River, pushed the river out of its banks at McGregor. The river crested less than a half foot above the flood stage at 16.29 feet.</p>				
FAYETTE COUNTY --- 0.7 S WAUCOMA [43.06, -92.03], 0.7 S WAUCOMA [43.06, -92.03], 0.7 S WAUCOMA [43.06, -92.03], 0.7 S WAUCOMA [43.06, -92.03]				
	05/09/13 14:00 CST		10K	Flood (due to Heavy Rain)
	05/09/13 16:00 CST		0	Source: Newspaper
<p>The driver of a vehicle was able to escape before it sank after attempting to drive through flood waters from a local creek in Waucoma.</p> <p>Flood waters from a creek in Waucoma (Fayette County) covered the intersection of County Road V68 and Scenic Road. When a driver attempted to drive through the waters, the current in the flow swept the vehicle off the road. The driver was able to escape without injury before the vehicle sank.</p>				
FLOYD COUNTY --- 0.6 WNW CHARLES CITY ARPT [43.07, -92.61]				
	05/14/13 15:45 CST		0	Thunderstorm Wind (MG 50 kt)
	05/14/13 15:45 CST		0	Source: AWOS
<p>The automated weather observing equipment at the Charles City airport measured a wind gust of 58 mph.</p> <p>Isolated thunderstorms developed along a cold front during the afternoon of May 14th. One of these storms became strong enough to produce high winds with the automated weather observing equipment at the Charles City Airport (Floyd County) measuring a wind gust of 58 mph.</p>				
FLOYD COUNTY --- 2.3 N NORA SPGS [43.18, -93.00]				
	05/19/13 13:58 CST		60K	Thunderstorm Wind (EG 60 kt)
	05/19/13 13:58 CST		0	Source: Emergency Manager
<p>A barn was blown down along with numerous large trees north of Nora Springs. One of the trees fell on a house.</p>				
MITCHELL COUNTY --- 0.5 E ST ANSGAR [43.38, -92.92]				
	05/19/13 14:00 CST		0	Heavy Rain
	05/19/13 19:55 CST		0	Source: COOP Observer
<p>In St. Ansgar, 4.43 inches of rain was reported.</p>				
MITCHELL COUNTY --- 2.7 NNW MEROA [43.27, -92.94]				
	05/19/13 14:07 CST		20K	Thunderstorm Wind (EG 55 kt)
	05/19/13 14:07 CST		0	Source: Newspaper
<p>A metal building was blown over and trees uprooted on a farm southwest of Mitchell.</p>				
MITCHELL COUNTY --- 3.4 SW MITCHELL [43.28, -92.93]				

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	05/19/13 14:09 CST		20K	Thunderstorm Wind (EG 60 kt)
	05/19/13 14:09 CST		0	Source: Broadcast Media

Three sheds were destroyed with some of the debris wrapped around power lines and a 2x6 was driven into another building on farms southwest of Mitchell.

FLOYD COUNTY --- 1.0 E CHARLES CITY [43.07, -92.68]

05/19/13 14:14 CST	0	Hail (1.00 in)
05/19/13 14:14 CST	0	Source: Law Enforcement

Quarter sized hail was reported in Charles City.

MITCHELL COUNTY --- 1.7 S MITCHELL [43.30, -92.88]

05/19/13 14:19 CST	40K	Thunderstorm Wind (EG 55 kt)
05/19/13 14:19 CST	0	Source: Newspaper

A grain bin was blown over on a farm south of Mitchell.

MITCHELL COUNTY --- 0.5 E OSAGE [43.28, -92.81]

05/19/13 14:20 CST	0	Heavy Rain
05/19/13 21:00 CST	0	Source: Mesonet

The automated mesonet observing equipment in Osage measured 3.84 inches of rain.

MITCHELL COUNTY --- 2.5 W OSAGE [43.28, -92.87]

05/19/13 14:20 CST	50K	Thunderstorm Wind (EG 55 kt)
05/19/13 14:20 CST	0	Source: Emergency Manager

A barn was blown over west of Osage killing 5 head of cattle that were inside the barn at the time.

MITCHELL COUNTY --- 0.6 WNW OSAGE [43.28, -92.83]

05/19/13 14:26 CST	0	Hail (1.00 in)
05/19/13 14:26 CST	0	Source: Emergency Manager

Lots of quarter sized hail fell and covered the ground along State Highway 9 just west of Osage.

FLOYD COUNTY --- 1.2 W NORA SPGS [43.15, -93.02], 0.3 E NORA SPGS [43.15, -92.99], 4.4 NNE NORA SPGS [43.21, -92.97], 5.2 NE NORA SPGS [43.21, -92.94], 1.0 NNW RUDD [43.14, -92.94], 1.0 SSE NORA SPGS [43.14, -92.99], 1.5 SW NORA SPGS [43.14, -93.02]

05/19/13 16:53 CST	0	Flash Flood (due to Heavy Rain)
05/20/13 03:00 CST	0	Source: 911 Call Center

Numerous roads in Nora Springs were under water. Dancer and Echo Avenues in the northwest corner of the county were closed as flood waters from Flood Creek covered the roads.

MITCHELL COUNTY --- 2.9 NNW OTRANTO [43.49, -93.02], 3.3 ENE BAILEY [43.49, -92.56], 6.6 SE NEW HAVEN [43.21, -92.56], 4.7 WSW MEROA [43.21, -93.02]

05/19/13 17:08 CST	4.50M	Flash Flood (due to Heavy Rain)
05/20/13 06:00 CST	20M	Source: Emergency Manager

Heavy rain produced wide spread flash flooding across much of Mitchell County. Numerous roads around Stacyville were under water by early evening and sand bagging occurred along the Little Cedar River. U.S. Highway 218 was closed by flooding between Osage and St. Ansgar and State Highway 9 was closed east and west of Osage. West of Osage, two culverts were washed away, causing a section of Highway 9 to collapse. A total of 22 roads were closed, 6 to 8 bridges washed out and approximately 90 percent of the gravel roads across the entire county were covered with water. Damage to the roads was estimated to be around \$4.5 million. In addition to all the road damage, a railroad bridge north of St. Ansgar was also washed out. The Stacyville fire department reported between 6 and 7 inches of rain had fallen during the mid and late afternoon hours. The heavy rains also took out about 15 percent of the county's corn crop.

CHICKASAW COUNTY --- 1.2 SE NEW HAMPTON [43.06, -92.31]

05/19/13 20:06 CST	65K	Thunderstorm Wind (EG 70 kt)
05/19/13 20:06 CST	0	Source: Law Enforcement

Numerous garages and buildings were damaged across New Hampton. Power lines and approximately 100 trees were also blown down.

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CHICKASAW COUNTY --- FREDRICKSBURG [42.97, -92.20]				
	05/19/13 20:06 CST		50K	Thunderstorm Wind (EG 65 kt)
	05/19/13 20:06 CST		0	Source: Law Enforcement
A grain elevator was damaged in Fredericksburg.				
WINNESHIEK COUNTY --- 0.5 E CALMAR [43.18, -91.87]				
	05/19/13 20:30 CST		15K	Thunderstorm Wind (EG 70 kt)
	05/19/13 20:30 CST		0	Source: COOP Observer
Some houses in Calmar had siding and shingles ripped off and numerous trees were snapped off.				
ALLAMAKEE COUNTY --- 0.5 E POSTVILLE [43.08, -91.57]				
	05/19/13 20:55 CST		2K	Thunderstorm Wind (EG 65 kt)
	05/19/13 20:55 CST		0	Source: 911 Call Center
Trees were blown down in Postville.				
ALLAMAKEE COUNTY --- WAUKON [43.27, -91.48]				
	05/19/13 21:04 CST		2K	Thunderstorm Wind (EG 70 kt)
	05/19/13 21:04 CST		0	Source: 911 Call Center
Trees were blown down in Waukon.				
ALLAMAKEE COUNTY --- 2.5 W ELON [43.27, -91.38]				
	05/19/13 21:09 CST		1K	Thunderstorm Wind (EG 70 kt)
	05/19/13 21:09 CST		0	Source: Public
Trees were blown down east of Waukon.				
FLOYD COUNTY --- 0.8 E CHARLES CITY [43.07, -92.68], 1.7 SSW WALLER [43.06, -92.66], 1.8 SSW WALLER [43.06, -92.67], 0.8 ESE CHARLES CITY [43.07, -92.69]				
	05/20/13 04:00 CST		0	Flood (due to Heavy Rain)
	05/22/13 07:30 CST		0	Source: River/Stream Gage
Runoff from heavy rain pushed the Cedar River out of its banks in Charles City. The river crested over seven and a half feet above the flood stage at 19.52 feet.				
FLOYD COUNTY --- 2.0 ENE CHARLES CITY ARPT [43.08, -92.56], 2.1 E CHARLES CITY ARPT [43.07, -92.56], 2.4 E CHARLES CITY ARPT [43.07, -92.55], 2.2 ENE CHARLES CITY ARPT [43.08, -92.56]				
	05/20/13 22:00 CST		0.10M	Flood (due to Heavy Rain)
	05/21/13 01:00 CST		0	Source: Broadcast Media
Heavy rains caused the Little Cedar River to go out of its banks east of Charles City. The flood waters damaged a railroad bridge causing an 80 car train to derail into the river. The two employees on the train were rescued without sustaining any injuries. A small amount of diesel fuel from one of the locomotives and ethanol from a tank car leaked into the river.				
ALLAMAKEE COUNTY --- 3.4 S CHESTER [43.42, -91.51], 3.5 S CHESTER [43.42, -91.51], 3.0 S CHESTER [43.43, -91.52], 3.0 S CHESTER [43.43, -91.52]				
	05/21/13 20:50 CST		0	Flood (due to Heavy Rain)
	05/22/13 07:30 CST		0	Source: River/Stream Gage
Runoff from heavy rain pushed the Upper Iowa River out of its banks near Dorchester. The river crested almost four feet above the flood stage at 15.86 feet.				
<p>Several rounds of thunderstorms rolled across northeast Iowa during the afternoon and evening of May 19th. These storms produced very heavy rains across Floyd and Mitchell Counties where numerous roads were washed out or covered with flood waters. Damage to roads in Mitchell County was estimated to be around \$4.5 million where 22 roads were closed with 6 to 8 bridges washed out. The heavy rain also damaged the corn crop in Mitchell County where it is estimated up to 15 percent of the crop will not grow back. The storms also produced damaging winds that destroyed buildings and blew down trees and power lines. Barns were blown down in Floyd and Mitchell Counties while a grain elevator was damaged near Fredericksburg (Chickasaw County). Flood waters on the Little Cedar River east of Charles City (Floyd County) damaged a railroad bridge causing an 80 car train to derail into the river. The two employees on the</p>				

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train were rescued without sustaining any injuries. The Iowa Governor requested a Presidential Disaster Declaration be made for Mitchell, Floyd, Chickasaw, Fayette and Clayton Counties.				
WINNESHIEK COUNTY --- 2.9 SSE NORDNESS [43.19, -91.76]				
	05/20/13 19:30 CST		0	Hail (1.00 in)
	05/20/13 19:30 CST		0	Source: Public
One inch was reported north of Ossian.				
Thunderstorms developed across northeast Iowa during the evening of May 20th ahead of a cold front that was approaching from the west. An isolated severe thunderstorm produced large hail near Ossian (Winneshiek County).				
WINNESHIEK COUNTY --- 0.5 E CALMAR [43.18, -91.87]				
	05/22/13 14:08 CST		0	Funnel Cloud
	05/22/13 14:08 CST		0	Source: Law Enforcement
Funnel clouds were sighted in Calmar.				
WINNESHIEK COUNTY --- 0.9 NE DECORAH [43.31, -91.79]				
	05/22/13 14:48 CST		0	Funnel Cloud
	05/22/13 15:00 CST		0	Source: Public
Funnel clouds were visible in Decorah.				
Numerous funnel clouds were sighted across northeast Iowa during the afternoon of May 22nd. None of these funnels touched down and occurred with showers and thunderstorms that developed along a slow moving trough of low pressure.				
CHICKASAW COUNTY --- 0.5 W NASHUA [42.95, -92.54]				
	05/29/13 13:12 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 13:12 CST		0	Source: Trained Spotter
A 60 mph wind gust was reported in Nashua.				
CHICKASAW COUNTY --- 2.6 NNE IONIA [43.07, -92.46]				
	05/29/13 13:27 CST		0	Thunderstorm Wind (MG 54 kt)
	05/29/13 13:27 CST		0	Source: Department of Highways
The automated mesonet observing equipment near Ionia measured a wind gust of 62 mph.				
CHICKASAW COUNTY --- 1.2 SE NEW HAMPTON [43.06, -92.31]				
	05/29/13 13:40 CST		0	Thunderstorm Wind (MG 55 kt)
	05/29/13 13:40 CST		0	Source: Trained Spotter
A wind gust of 63 mph occurred in New Hampton.				
CHICKASAW COUNTY --- 4.8 E SAUDE [43.21, -92.08], 6.8 ESE FREDRICKSBURG [42.92, -92.08], 2.6 SE REPUBLIC [42.92, -92.37], 4.1 E ALTA VISTA [43.20, -92.35]				
	05/29/13 15:25 CST		20K	Flash Flood (due to Heavy Rain)
	05/30/13 00:00 CST		0	Source: Trained Spotter
Heavy rain produced street flooding and caused water to go into several basements in Lawler. Widespread flooding also occurred over the eastern sections of the county and numerous streets were flooded in New Hampton.				
FAYETTE COUNTY --- 0.7 N FAIRBANK [42.64, -92.05]				
	05/29/13 15:40 CST		0	Heavy Rain
	05/29/13 20:23 CST		0	Source: Broadcast Media
In Fairbank, 3.2 inches of rain fell.				
HOWARD COUNTY --- 0.5 E PROTIVIN [43.22, -92.09], 0.9 SE PROTIVIN [43.21, -92.09], 0.8 S PROTIVIN [43.21, -92.10], 0.2 NE PROTIVIN [43.22, -92.10]				
	05/29/13 15:49 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 22:00 CST		0	Source: Law Enforcement

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Sandbagging occurred in Protivin after heavy rain pushed Bohemian Creek out of its banks.				
FAYETTE COUNTY --- 1.5 E OELWEIN [42.68, -91.87]				
	05/29/13 16:05 CST		25K	Thunderstorm Wind (EG 60 kt)
	05/29/13 16:05 CST		0	Source: Broadcast Media
A farm shed was blown down, a grain bin was twisted and torn, windows were broken and machines were damaged on a farm east of Oelwein.				
CLAYTON COUNTY --- 2.1 SE EDGEWOOD [42.65, -91.40]				
	05/29/13 16:15 CST		0	Heavy Rain
	05/29/13 20:41 CST		0	Source: Fire Department/Rescue
In Edgewood, 4.5 inches of rain fell.				
WINNESHIEK COUNTY --- 1.8 SSW FT ATKINSON [43.13, -91.96], 1.0 NE DECORAH TATRO ARPT [43.33, -91.82], 0.8 NE FREEPORT [43.31, -91.76], 1.1 ESE CALMAR [43.17, -91.86]				
	05/29/13 16:25 CST		20K	Flash Flood (due to Heavy Rain)
	05/29/13 23:30 CST		0	Source: Law Enforcement
Heavy rain caused Goddard Creek to go out of its banks with water covering part of State Highway 24 just outside of Fort Atkinson. In and around Calmar, water was over several county roads and State Highway 24. Street flooding in Calmar also occurred along with water getting into the basements of some houses. Widespread street flooding from heavy rain occurred in Decorah. In about an hour and 45 minutes, 3.5 inches of rain fell in Fort Atkinson, the COOP observer in Calmar received 3.43 inches and the public reported 3.5 inches of rain in Decorah.				
CLAYTON COUNTY --- 0.6 ESE GARNAVILLO [42.87, -91.22], 0.8 ENE CLAYTON [42.90, -91.14]				
	05/29/13 16:46 CST		20K	Tornado (EF0, L: 4.82 mi , W: 10 yd)
	05/29/13 16:51 CST		0	Source: Law Enforcement
A pole barn was damaged and numerous trees were knocked down from east of Garnavillo to the Wisconsin state line in the Mississippi River east of Clayton.				
CLAYTON COUNTY --- 1.7 ESE EDGEWOOD [42.66, -91.40]				
	05/29/13 16:50 CST		0	Hail (0.88 in)
	05/29/13 16:50 CST		0	Source: Emergency Manager
CLAYTON COUNTY --- 4.5 WSW STRAWBERRY PT [42.65, -91.60], 1.0 S HIGHLAND [42.89, -91.60], 1.9 ESE CLAYTON [42.88, -91.12], 2.2 S GUTTENBURG [42.75, -91.09], 8.0 ESE MILLVILLE [42.66, -90.92]				
	05/29/13 17:46 CST		0	Flash Flood (due to Heavy Rain)
	05/30/13 01:15 CST		0	Source: Law Enforcement
Heavy rain overwhelmed small streams east of Edgewood causing water to go over State Highway 3. Numerous other streams over the southern half of the county also went out of their banks causing water to flow over roads. The COOP observer in Edgewood reported 4.1 inches of rain.				
FAYETTE COUNTY --- 2.6 SSE ARLINGTON [42.72, -91.65], 2.4 S ARLINGTON [42.72, -91.66], 5.4 S ARLINGTON [42.67, -91.69], 5.5 SSE ARLINGTON [42.67, -91.65], 4.6 SE ARLINGTON [42.70, -91.61], 4.0 SE ARLINGTON [42.72, -91.61]				
	05/29/13 18:15 CST		75K	Flash Flood (due to Heavy Rain)
	05/29/13 22:00 CST		0	Source: Law Enforcement
Heavy rains caused several small streams that feed the Maquoketa River to go out of their banks south of Arlington. At least three roads were closed due to washouts or water over the road.				
FAYETTE COUNTY --- 2.4 SW MAYNARD [42.75, -91.90], 3.5 ESE WESTGATE [42.74, -91.94], 3.0 E WESTGATE [42.77, -91.94], 1.7 W MAYNARD [42.77, -91.90]				
	05/29/13 19:53 CST		0	Flood (due to Heavy Rain)
	05/30/13 00:00 CST		0	Source: Broadcast Media
Numerous fields were underwater north of Oelwein from heavy rain.				
CLAYTON COUNTY --- 0.6 N GARBER [42.74, -91.27], 0.9 NE GARBER [42.74, -91.26], 1.1 NNE GARBER [42.74, -91.26], 1.1 NE GARBER [42.74, -91.26], 0.9 NE GARBER [42.74, -91.26], 0.6 NNE GARBER [42.74, -91.27], 0.5 N GARBER [42.74, -91.27]				
	05/29/13 20:30 CST		0	Flood (due to Heavy Rain)
	05/31/13 23:15 CST		0	Source: River/Stream Gage

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Runoff from heavy rain pushed the Turkey River out of its banks in Garber. The river crested almost five and a half feet above the flood stage at 22.47 feet.				

FLOYD COUNTY --- 0.9 N CHARLES CITY [43.08, -92.70], 0.3 NW WALLER [43.08, -92.65], 2.0 S WALLER [43.05, -92.65], 1.7 S CHARLES CITY [43.05, -92.70]

05/29/13 23:26 CST	0	Flash Flood (due to Heavy Rain)
05/30/13 04:00 CST	0	Source: Broadcast Media

Numerous streets were under water in Charles City from excessive rain. The storm sewers were not able to keep up with the rain as it fell.

ALLAMAKEE COUNTY --- 3.4 S CHESTER [43.42, -91.51], 3.5 S CHESTER [43.42, -91.51], 3.0 S CHESTER [43.43, -91.52], 3.0 S CHESTER [43.43, -91.52]

05/30/13 02:00 CST	0	Flood (due to Heavy Rain)
05/30/13 11:40 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Upper Iowa River out of its banks near Dorchester. The river crested almost a foot above the flood stage at 14.99 feet.

CLAYTON COUNTY --- 0.4 SSW ELKADER [42.84, -91.40], 0.5 SSE ELKADER [42.84, -91.40], 0.6 SSE ELKADER [42.84, -91.40], 0.6 S ELKADER [42.84, -91.40], 0.5 SSW ELKADER [42.84, -91.40], 0.5 SW ELKADER [42.84, -91.41]

05/30/13 02:30 CST	0	Flood (due to Heavy Rain)
05/31/13 19:15 CST	0	Source: River/Stream Gage

Runoff from heavy rain pushed the Turkey River out of its banks in Elkader. The river crested almost four feet above the flood stage at 15.86 feet.

A small tornado developed east of Garnavillo (Clayton County) and traveled east/northeast to the Mississippi River before crossing over into Wisconsin. This tornado was part of a larger severe weather outbreak that occurred across much of northeast Iowa during the afternoon of May 29th. These storms developed in a warm and moist airmass behind a warm front that was moving north across the Upper Midwest. In addition to the tornado, a farm east of Oelwein (Fayette County) was hit hard by straight line winds and flash flooding occurred in Protivin (Howard County).

CLAYTON COUNTY --- 3.5 N OSTERDOCK [42.82, -91.17]

05/30/13 16:41 CST	0	Thunderstorm Wind (EG 52 kt)
05/30/13 16:41 CST	0	Source: Fire Department/Rescue

An estimated wind gust of 60 mph occurred southeast of Garnavillo.

For the second straight day, thunderstorms developed during the afternoon across northeast Iowa. Some of these storms produced severe wind gusts with a 60 mph gust occurring southeast of Garnavillo (Clayton County).

FLOYD COUNTY --- 1.8 WSW FLOYD HANRY ARPT [43.17, -92.73], 1.6 WSW FLOYD HANRY ARPT [43.17, -92.73]

05/31/13 17:09 CST	0	Tornado (EF0, L: 0.18 mi , W: 10 yd)
05/31/13 17:10 CST	0	Source: Emergency Manager

A small tornado briefly touched down north of Floyd.

HOWARD COUNTY --- 5.4 WNW ELMA [43.28, -92.55]

05/31/13 17:32 CST	0	Funnel Cloud
05/31/13 17:32 CST	0	Source: Law Enforcement

Funnel clouds were sighted along the Mitchell County line between Riceville and Elma.

MITCHELL COUNTY --- 0.5 E ST ANSGAR [43.38, -92.92]

05/31/13 22:11 CST	0	Hail (1.00 in)
05/31/13 22:11 CST	0	Source: Law Enforcement

Quarter sized hail fell in St. Ansgar.

MITCHELL COUNTY --- 1.3 WNW CARPENTER [43.43, -93.02], 0.9 NE CARPENTER [43.43, -92.99], 1.5 SSE CARPENTER [43.40, -92.99], 1.8 SW CARPENTER [43.40, -93.02]

05/31/13 22:11 CST	0	Flash Flood (due to Heavy Rain)
05/31/13 23:59 CST	0	Source: Law Enforcement

Heavy rains pushed Deer Creek out of its banks causing water to go over roads in the vicinity of Carpenter.

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Multiple round of thunderstorms moved across northeast Iowa during the afternoon and evening of May 31st. These storms developed in a complex surface pattern across the Upper Midwest as a pre-frontal surface trough, dry line and cold front all passed through the area. A small tornado touched down north of Floyd (Floyd County) and quarter sized hail fell in St. Ansgar (Mitchell County), otherwise, the storms passed through without producing much severe weather.

MINNESOTA, Southeast

(MN-Z079) WABASHA, (MN-Z086) DODGE, (MN-Z087) OLMSTED, (MN-Z088) WINONA, (MN-Z094) MOWER, (MN-Z095) FILLMORE

05/01/13 18:45 CST	0.12M	Heavy Snow
05/05/13 16:15 CST	0	

A narrow but intense band of snow set up across portions of southeast Minnesota during the evening hours of May 1st and continued into the 2nd. While all of southeast Minnesota ended up receiving some snow from this system, snow was heaviest in a band between Mason City, Iowa and Menomonie, WI where over 10 inches fell. Amounts exceeded 15 inches over portions of Olmsted and Dodge Counties. New Minnesota state snowfall records for the month of May were established with a one day total of 15.4 inches on May 2nd and two day total of 17.2 on May 2nd and 3rd in Dodge Center (Dodge County). Other notable snowfall totals were 16.6 inches just west of Rochester (Olmsted County) and 14 inches in Grand Meadow (Mower County). The heavy wet snow caused several power outages to occur, as 10,000 customers in Rochester lost power while over 1,700 customers were without power across parts of Mower, Dodge, Fillmore, Wabasha, Winona and rural Olmsted Counties. The weight of the snow caused some buildings and barns to collapse and hundreds of trees across the region were damaged. Numerous schools across southeast Minnesota canceled classes and the Minnesota DOT did not recommend travel on Interstate 90 east of Albert Lea and on state highways.

MOWER COUNTY --- 0.9 NE GRAND MEADOW [43.71, -92.57]

05/19/13 15:00 CST	0	Heavy Rain
05/19/13 23:13 CST	0	Source: COOP Observer

The COOP observer in Grand Meadow reported 2.21 inches of rain.

MOWER COUNTY --- 3.5 N RACINE [43.83, -92.49]

05/19/13 15:10 CST	5K	Thunderstorm Wind (EG 55 kt)
05/19/13 15:10 CST	0	Source: Public

Around 30 large pine trees were blown down south of Stewartville.

OLMSTED COUNTY --- 0.5 E (RST) ROCHESTER MUNI [43.92, -92.49]

05/19/13 15:19 CST	2K	Thunderstorm Wind (MG 52 kt)
05/19/13 15:19 CST	0	Source: ASOS

The automated weather observing equipment at the Rochester International Airport measured a wind gust of 60 mph. There were also reports from the northwest side of Rochester of power outages and debris blown onto area streets. Some trees were blown down with at least one landing on a car breaking the back window. Around 5,000 customers in Rochester lost power because of the storm.

FILLMORE COUNTY --- SPRING VLY [43.68, -92.40]

05/19/13 15:23 CST	8K	Thunderstorm Wind (EG 50 kt)
05/19/13 15:23 CST	0	Source: Broadcast Media

On a farm near Spring Valley, 38 trees were either uprooted or snapped off.

FILLMORE COUNTY --- FILLMORE [43.75, -92.27]

05/19/13 15:45 CST	0	Heavy Rain
05/19/13 21:00 CST	0	Source: Mesonet

The automated mesonet reporting equipment in the town of Fillmore reported 2.39 inches of rain.

OLMSTED COUNTY --- 1.0 E DOVER [43.97, -92.13]

05/19/13 16:00 CST	0	Heavy Rain
05/20/13 01:02 CST	0	Source: Mesonet

The automated mesonet reporting equipment in Dover reported 2.52 inches of rain.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
WINONA COUNTY --- 1.0 E ST CHARLES [43.97, -92.06]				
	05/19/13 16:22 CST		20K	Thunderstorm Wind (EG 55 kt)
	05/19/13 16:22 CST		0	Source: Law Enforcement
Power lines and trees were blown in St. Charles. The strong winds also damaged a building of a local agricultural business.				
WINONA COUNTY --- 2.3 NNE ST CHARLES [44.00, -92.06], 4.0 SSW ELBA [44.03, -92.06]				
	05/19/13 16:23 CST		40K	Thunderstorm Wind (EG 55 kt)
	05/19/13 16:23 CST		0	Source: Law Enforcement
Damage to buildings occurred from about 2 miles north of St. Charles to 4 miles north of St. Charles. Large trees were blown down along with a pole barn and corn cribs. Six foot long sections of tin were ripped off other buildings and some one inch hail also fell.				
MOWER COUNTY --- 1.8 WNW LE ROY [43.53, -92.55], 1.7 WNW LE ROY [43.53, -92.55], 1.7 WNW LE ROY [43.53, -92.55], 1.8 WNW LE ROY [43.53, -92.55]				
	05/19/13 17:52 CST		0	Flash Flood (due to Heavy Rain)
	05/19/13 22:00 CST		0	Source: Law Enforcement
Water from a branch of the Upper Iowa River was flowing over State Highway 56 west of Le Roy.				
WINONA COUNTY --- 1.2 NW FREMONT [43.93, -91.92]				
	05/19/13 18:13 CST		0	Thunderstorm Wind (EG 55 kt)
	05/19/13 18:13 CST		0	Source: Law Enforcement
Wind gusts from a line of thunderstorms caused a semi truck to jack knife on Interstate 90 southwest of Lewiston.				
WINONA COUNTY --- 0.5 E LEWISTON [43.98, -91.87]				
	05/19/13 18:21 CST		2K	Thunderstorm Wind (EG 55 kt)
	05/19/13 18:21 CST		0	Source: Law Enforcement
Trees were blown down and one inch hail fell in Lewiston. One of the large trees blown down fell across U.S. Highway 14 with both lanes blocked for about 15 minutes.				
WINONA COUNTY --- 0.9 SE LEWISTON [43.97, -91.87]				
	05/19/13 18:21 CST		0	Thunderstorm Wind (MG 64 kt)
	05/19/13 18:21 CST		0	Source: Trained Spotter
Wind gusts of 65 to 74 mph occurred south of Lewiston.				
WINONA COUNTY --- ROLLINGSTONE [44.10, -91.82]				
	05/19/13 18:35 CST		2K	Thunderstorm Wind (EG 50 kt)
	05/19/13 18:35 CST		0	Source: Newspaper
Trees were blown down in Rollingstone, temporarily blocking traffic on South Main Street.				
WINONA COUNTY --- 0.5 W WINONA [44.05, -91.66]				
	05/19/13 18:40 CST		0	Thunderstorm Wind (MG 54 kt)
	05/19/13 18:40 CST		0	Source: Trained Spotter
A 62 mph wind gust occurred in Winona.				
WINONA COUNTY --- ROLLINGSTONE [44.10, -91.82]				
	05/19/13 18:40 CST		5K	Thunderstorm Wind (EG 50 kt)
	05/19/13 18:40 CST		0	Source: Trained Spotter
Vehicles and a deck were damaged when large tree branches landed on them.				
MOWER COUNTY --- 3.0 NW ADAMS [43.60, -92.77], 3.4 NE ADAMS [43.60, -92.68], 1.5 WSW TAOP! [43.54, -92.68], 2.4 SW ADAMS [43.55, -92.76]				
	05/19/13 19:49 CST		10K	Flash Flood (due to Heavy Rain)
	05/20/13 00:40 CST		0	Source: Broadcast Media

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Sandbagging occurred in Adams and County Roads 4 and 7 near Adams were closed as water from several branches of the Little Cedar River were out of their banks. Flood waters covered much of the business district in Adams with little damage occurring to those that were able to sand bag. For those that didn't, water reached into the buildings creating minor damage.				

FILLMORE COUNTY --- 7.8 S OSTRANDER [43.51, -92.45], 2.6 SE YORK [43.51, -92.23], 1.9 WSW CHATFIELD [43.84, -92.21], 4.4 N HAMILTON [43.83, -92.45]

05/19/13 20:00 CST	20K	Flash Flood (due to Heavy Rain)
05/20/13 00:10 CST	0	Source: Law Enforcement

Heavy rains across the western sections of Fillmore County caused numerous roads to be closed and basement flooding to occur in Spring Valley. The high water stranded several heads of cattle in the Wykoff and Fillmore areas.

MOWER COUNTY --- 3.6 W ELKTON [43.67, -92.79], 4.0 W ELKTON [43.67, -92.80], 4.0 W ELKTON [43.67, -92.80], 3.5 W ELKTON [43.67, -92.79]

05/19/13 21:00 CST	30K	Flash Flood (due to Heavy Rain)
05/20/13 01:30 CST	0	Source: Broadcast Media

Flood waters from Rose Creek inundated Jellystone Campground east of Austin. A pedestrian bridge was severely damaged. The majority of the campers and RVs in the park were moved to safety, but a few vehicles did suffer some water damage. Highway shoulders in the area were washed out and some secondary roads were closed by the high water.

WINONA COUNTY --- 4.9 NNW ST CHARLES [44.04, -92.11], 4.8 NNW ST CHARLES [44.04, -92.10], 4.8 NNW ST CHARLES [44.04, -92.10], 4.7 NNW ST CHARLES [44.04, -92.10], 4.7 NNW ST CHARLES [44.04, -92.11], 4.9 NNW ST CHARLES [44.04, -92.11]

05/19/13 22:20 CST	0	Flood (due to Heavy Rain)
05/20/13 04:45 CST	0	Source: River/Stream Gage

Runoff from heavy rains pushed the Whitewater River out of its banks in the Whitewater State Park. The river crested less than a half foot over the flood stage at 13.9 feet.

MOWER COUNTY --- 0.7 NW AUSTIN [43.68, -92.94], 0.7 NW AUSTIN [43.68, -92.94], 0.6 NW AUSTIN [43.68, -92.94], 0.6 NW AUSTIN [43.68, -92.94], 0.7 NW AUSTIN [43.68, -92.94], 0.7 WNW AUSTIN [43.68, -92.94], 1.0 WNW AUSTIN [43.67, -92.95], 1.0 WNW AUSTIN [43.67, -92.95]

05/20/13 02:25 CST	0	Flood (due to Heavy Rain)
05/20/13 11:30 CST	0	Source: River/Stream Gage

Runoff from heavy rains pushed Dobbins Creek out of its banks in Austin. The creek crested a foot and a half above the flood stage at 13.01 feet.

FILLMORE COUNTY --- 0.9 SSW PRESTON [43.67, -92.08], 0.9 SSW PRESTON [43.67, -92.08], 0.9 S PRESTON [43.67, -92.08], 0.8 S PRESTON [43.67, -92.08], 0.7 S PRESTON [43.67, -92.08], 0.7 S PRESTON [43.67, -92.08], 0.9 S PRESTON [43.67, -92.08], 1.0 S PRESTON [43.67, -92.08]

05/20/13 12:40 CST	0	Flood (due to Heavy Rain)
05/20/13 17:00 CST	0	Source: River/Stream Gage

Runoff from heavy rains pushed the South Branch of the Root River out of its banks in Preston. The river crested just over a foot above the flood stage at 938.07 feet.

HOUSTON COUNTY --- 0.4 W HOUSTON [43.77, -91.58], 0.4 W HOUSTON [43.77, -91.58], 0.0 SSW HOUSTON [43.77, -91.57], 0.4 ENE HOUSTON [43.77, -91.56], 0.4 E HOUSTON [43.77, -91.56], 0.1 S HOUSTON [43.77, -91.57]

05/21/13 07:05 CST	0	Flood (due to Heavy Rain)
05/22/13 02:35 CST	0	Source: River/Stream Gage

Runoff from heavy rains pushed the Root River out of its banks near Houston. The river crested a foot and a half above the flood stage at 16.52 feet.

Several rounds of thunderstorms rolled across southeast Minnesota during the afternoon and evening of May 19th. The first round of storms produced wind damage from the northeast corner of Mower County into Winona and Wabasha Counties during the afternoon. The second round of storms produced additional wind damage across primarily Winona County later that evening. In addition, the heavy rain from these repeated storms caused flash flooding to occur near Le Roy and Adams (Mower County) as water from streams flowed over several roads that prompted sandbagging. Other flash flooding near Rose Creek (Mower County) caused significant flooding at a campground.

MOWER COUNTY --- 0.9 SE LE ROY [43.51, -92.51]

05/29/13 13:38 CST	0	Heavy Rain
05/29/13 14:08 CST	0	Source: Fire Department/Rescue

In Le Roy, 1.1 inches of rain fell in about 30 minutes.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
FILLMORE COUNTY --- CHERRY GROVE [43.58, -92.28]				
	05/29/13 13:54 CST		6K	Thunderstorm Wind (MG 59 kt)
	05/29/13 13:54 CST		0	Source: Trained Spotter
A roof was damaged and tree limbs blown down by a 68 mph wind gust in Cherry Grove. Just south of town, a storage shed was destroyed and shingles were blown off a garage.				
FILLMORE COUNTY --- 0.4 SE PRESTON FLLMR ARPT [43.68, -92.17]				
	05/29/13 14:06 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 14:06 CST		0	Source: AWOS
The automated weather observing equipment at the Preston airport measured a wind gust of 58 mph.				
FILLMORE COUNTY --- 0.7 S FOUNTAIN [43.74, -92.13]				
	05/29/13 14:10 CST		2K	Thunderstorm Wind (EG 58 kt)
	05/29/13 14:10 CST		0	Source: Law Enforcement
A tin roof was blown off a structure in Fountain.				
WINONA COUNTY --- 0.5 W ALTURA [44.07, -91.94]				
	05/29/13 14:41 CST		0	Hail (0.75 in)
	05/29/13 14:41 CST		0	Source: Trained Spotter
HOUSTON COUNTY --- 0.9 NE RIVER JCT [43.84, -91.31]				
	05/29/13 15:20 CST		0	Heavy Rain
	05/29/13 19:20 CST		0	Source: NWS Employee
In La Crescent, 2.23 inches of rain fell.				
HOUSTON COUNTY --- 3.3 ENE SHELDON [43.69, -91.53], 3.9 N CALEDONIA [43.69, -91.51], 3.8 N CALEDONIA [43.68, -91.51], 3.3 E SHELDON [43.69, -91.53]				
	05/29/13 16:00 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 20:00 CST		0	Source: Law Enforcement
Heavy rain pushed Badger Creek out of its banks causing water to flow over State Highway 76 north of Caledonia.				
Thunderstorms developed during the afternoon of May 29th in a warm and moist airmass behind a warm front that was moving north across the Upper Midwest. These storms produced wind damage across Fillmore County and some flash flooding in Houston County. A 68 mph wind gust occurred in Cherry Grove (Fillmore County) where roof damage was done and a storage shed was destroyed. The rain pushed some streams out of their banks forcing water to go over State Highway 76 north of Caledonia (Houston County).				
WABASHA COUNTY --- PLAINVIEW [44.17, -92.17]				
	05/31/13 14:05 CST		0	Hail (0.88 in)
	05/31/13 14:05 CST		0	Source: Trained Spotter
OLMSTED COUNTY --- 0.7 N EYOTA [43.99, -92.23]				
	05/31/13 14:08 CST		0	Hail (0.75 in)
	05/31/13 14:08 CST		0	Source: Trained Spotter
WABASHA COUNTY --- 1.6 ESE CONCEPTION [44.26, -92.07]				
	05/31/13 14:13 CST		0	Hail (1.75 in)
	05/31/13 14:13 CST		0	Source: Trained Spotter
Golf ball sized hail fell between Kellogg and Plainview.				
WABASHA COUNTY --- 1.6 WSW WABASHA [44.37, -92.06]				
	05/31/13 14:22 CST		0	Hail (0.75 in)
	05/31/13 14:22 CST		0	Source: Law Enforcement
OLMSTED COUNTY --- 2.9 NNE (RST) ROCHESTER MUNI [43.96, -92.48]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/31/13 19:55 CST		0	Hail (1.00 in)
	05/31/13 19:55 CST		0	Source: COOP Observer
Quarter sized hail fell and there was also a 57 mph wind gust south of Rochester.				
<hr/>				
OLMSTED COUNTY --- 0.9 NW STEWARTVILLE [43.86, -92.49]				
	05/31/13 20:11 CST		0	Hail (0.75 in)
	05/31/13 20:11 CST		0	Source: Broadcast Media
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OLMSTED COUNTY --- MARION [43.95, -92.35]				
	05/31/13 20:34 CST		0	Hail (1.50 in)
	05/31/13 20:34 CST		0	Source: Social Media
Up to half dollar sized hail fell in Marion.				
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OLMSTED COUNTY --- 1.2 NE SIMPSON [43.94, -92.38]				
	05/31/13 20:35 CST		0	Hail (1.75 in)
	05/31/13 20:35 CST		0	Source: NWS Employee
Golf ball sized hail fell southeast of Rochester.				
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OLMSTED COUNTY --- 3.0 S ROCHESTER [43.99, -92.47]				
	05/31/13 20:35 CST		5K	Lightning
	05/31/13 20:35 CST		0	Source: Broadcast Media
Lightning struck a tree on the southwest side of Rochester causing a nearby natural gas line to start on fire. Firefighters cooled the fire until the utility company clamped off the gas line.				
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OLMSTED COUNTY --- 1.6 WSW PLEASANT GROVE [43.86, -92.41]				
	05/31/13 20:37 CST		0	Hail (0.88 in)
	05/31/13 20:37 CST		0	Source: Amateur Radio
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OLMSTED COUNTY --- 0.5 W PREDMORE [43.93, -92.34]				
	05/31/13 20:40 CST		0	Hail (1.00 in)
	05/31/13 20:40 CST		0	Source: Amateur Radio
Quarter sized hail covered the ground in Predmore.				
<hr/>				
OLMSTED COUNTY --- 1.5 W LAIRD [43.97, -92.26]				
	05/31/13 20:45 CST		0	Hail (1.00 in)
	05/31/13 20:45 CST		0	Source: Trained Spotter
Quarter sized hail fell southwest of Eyota.				
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WINONA COUNTY --- 0.5 W ALTURA [44.07, -91.94]				
	05/31/13 21:21 CST		0	Hail (0.75 in)
	05/31/13 21:21 CST		0	Source: Fire Department/Rescue
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MOWER COUNTY --- LE ROY [43.52, -92.52]				
	05/31/13 21:44 CST		0	Hail (1.00 in)
	05/31/13 21:44 CST		0	Source: Fire Department/Rescue
Quarter sized hail just outside of Le Roy.				
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FILLMORE COUNTY --- WHALAN [43.73, -91.93]				
	05/31/13 21:45 CST		0	Thunderstorm Wind (EG 52 kt)
	05/31/13 21:45 CST		0	Source: Public
An estimated 60 mph wind gust occurred in Whalan.				
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OLMSTED COUNTY --- 1.2 W CHESTER [44.00, -92.37]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/31/13 22:05 CST		25K	Lightning
	05/31/13 23:59 CST		0	Source: Broadcast Media

Lightning struck a house on the southeast side of Rochester causing a fire in the attic. The fire was quickly put out but extensive damage was done to the roof and attic.

Multiple rounds of thunderstorms moved across southeast Minnesota during the afternoon and evening of May 31st. These storms developed in a complex surface pattern across the Upper Midwest as a pre-frontal surface trough, dry line and cold front all passed through the area. The storms primarily produced large hail, although there were also some wind gusts around 60 mph. The largest hail reported was golf ball sized near Kellogg (Wabasha County) and around Rochester (Olmsted County).

WISCONSIN, Southwest

JACKSON COUNTY --- 2.2 W FALL HALL GLEN [44.22, -90.87], 2.1 WSW FALL HALL GLEN [44.21, -90.87], 2.1 WSW FALL HALL GLEN [44.21, -90.87], 2.1 W FALL HALL GLEN [44.22, -90.87]	05/01/13 00:00 CST	0	Flood (due to Heavy Rain / Snow Melt)
	05/09/13 15:00 CST	0	Source: Emergency Manager

Hawk Island Road in the Town of Manchester was closed starting in April until May 9th due to flooding and high water on the Black River.

JACKSON COUNTY --- 3.9 SSW MELROSE [44.08, -91.03], 3.6 SSW MELROSE [44.08, -91.03], 3.4 SSW MELROSE [44.08, -91.02], 3.4 SSW MELROSE [44.08, -91.02], 3.6 SSW MELROSE [44.08, -91.02], 4.0 SSW MELROSE [44.08, -91.03]	05/01/13 00:00 CST	0	Flood (due to Heavy Rain / Snow Melt)
	05/16/13 15:00 CST	0	Source: Emergency Manager

Stetzer Road in the Town of Melrose was closed starting in April until May 16th due to flooding and high water on the Black River and Germann Valley Creek.

Township roads across Jackson County that were covered with flood waters starting in April, opened up by the middle of May as the waters receded.

(WI-Z032) BUFFALO

05/02/13 01:00 CST	0	Heavy Snow
05/02/13 21:00 CST	0	

A narrow but intense band of snow set up across portions of western Wisconsin during the evening hours of May 1st and continued into the 2nd. Amounts of 3 to 8 inches were reported across Buffalo County with 6 inches or more common across the northern half of the county. The highest reported total was 8.3 inches west of Mondovi (Buffalo County).

BUFFALO COUNTY --- 2.7 SE COCHRANE [44.20, -91.80]	05/19/13 16:49 CST	15K	Thunderstorm Wind (EG 50 kt)
	05/19/13 16:49 CST	0	Source: Law Enforcement

Trees and power lines were blown down south of Cochrane.

BUFFALO COUNTY --- 0.4 SE GILMANTON [44.47, -91.67]	05/19/13 17:15 CST	12K	Thunderstorm Wind (EG 50 kt)
	05/19/13 17:15 CST	0	Source: Emergency Manager

Around a dozen power poles were blown down in Gilmanton.

TREMPEALEAU COUNTY --- ELEVA [44.58, -91.47]	05/19/13 17:35 CST	0	Hail (1.00 in)
	05/19/13 17:35 CST	0	Source: Public

One inch hail and wind gusts to 50 mph were reported in Eleva.

VERNON COUNTY --- 0.5 W WESTBY [43.65, -90.86]	05/19/13 21:45 CST	2K	Thunderstorm Wind (EG 55 kt)
	05/19/13 21:45 CST	0	Source: Law Enforcement

Trees were blown down across U.S. Highway 14/61 in Westby.

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
GRANT COUNTY --- 0.5 E LANCASTER [42.85, -90.71]				
	05/19/13 22:46 CST		2K	Thunderstorm Wind (EG 50 kt)
	05/19/13 22:46 CST		0	Source: Law Enforcement
Trees were blown down in Lancaster.				
GRANT COUNTY --- 1.7 ENE TENNYSON [42.69, -90.65]				
	05/19/13 22:50 CST		0	Hail (1.75 in)
	05/19/13 22:50 CST		0	Source: Trained Spotter
Golf ball sized hail fell east of Potosi.				
RICHLAND COUNTY --- 1.1 SW (LNR)TRI CO ARPT LON [43.21, -90.19]				
	05/19/13 23:37 CST		0	Thunderstorm Wind (EG 52 kt)
	05/19/13 23:37 CST		0	Source: Public
Wind gusts of 60 mph occurred in the vicinity of the Lone Rock airport.				
TREMPEALEAU COUNTY --- 1.9 W PINE CREEK [44.13, -91.56], 1.6 W PINE CREEK [44.13, -91.55], 1.6 W PINE CREEK [44.13, -91.55], 1.6 W PINE CREEK [44.13, -91.55], 1.9 W PINE CREEK [44.13, -91.56]				
	05/22/13 03:15 CST		0	Flood (due to Heavy Rain)
	05/24/13 20:00 CST		0	Source: River/Stream Gage
Runoff from heavy rains pushed the Trempealeau River out of its banks at Dodge. The river crested over a foot above the flood stage at 10.34 feet.				
Several rounds of thunderstorms rolled across western Wisconsin during the afternoon and evening of May 19th. The first round of storms produced wind damage across Buffalo County during the afternoon. The second round of storms in the evening produced additional severe wind gusts in Vernon, Grant and Richland Counties. The most significant damage occurred in Gilmanton (Buffalo County) where a dozen power poles were blown down.				
GRANT COUNTY --- 1.2 NE MUSCODA [43.19, -90.43]				
	05/22/13 15:51 CST		0	Funnel Cloud
	05/22/13 15:51 CST		0	Source: Trained Spotter
Funnel clouds were sighted near Muscoda.				
RICHLAND COUNTY --- RICHLAND ARPT [43.28, -90.30]				
	05/22/13 19:22 CST		0	Funnel Cloud
	05/22/13 19:22 CST		0	Source: Law Enforcement
Funnel clouds were sighted near Richland Center.				
Numerous funnel clouds were sighted across southwest Wisconsin during the afternoon and early evening of May 22nd. None of these funnels touched down and occurred with showers and thunderstorms that developed along a slow moving trough of low pressure.				
TREMPEALEAU COUNTY --- 1.1 ESE TAMARACK [44.17, -91.45]				
	05/29/13 15:00 CST		2K	Thunderstorm Wind (EG 55 kt)
	05/29/13 15:00 CST		0	Source: Law Enforcement
Trees were blown down near County Road F south of Arcadia.				
TREMPEALEAU COUNTY --- 1.0 S WHITEHALL [44.36, -91.32]				
	05/29/13 15:16 CST		25K	Thunderstorm Wind (EG 50 kt)
	05/29/13 15:16 CST		0	Source: Emergency Manager
Just south of Whitehall, a pole barn was blown down, other large structures were damaged and numerous tree limbs were blown onto the highway.				
TREMPEALEAU COUNTY --- 1.1 S WHITEHALL [44.35, -91.32]				
	05/29/13 15:16 CST		0	Hail (0.88 in)
	05/29/13 15:16 CST		0	Source: Public
LA CROSSE COUNTY --- 1.5 NNW HERRINGTON [43.80, -91.19]				

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	05/29/13 15:35 CST		0	Heavy Rain
	05/29/13 21:28 CST		0	Source: Amateur Radio
Southeast of the city of La Crosse, 2.3 inches of rain fell.				
JACKSON COUNTY --- 0.5 W MERRILLAN [44.45, -90.84]				
	05/29/13 15:51 CST		0	Hail (1.00 in)
	05/29/13 15:51 CST		0	Source: Trained Spotter
Quarter sized hail fell in Merrillan.				
LA CROSSE COUNTY --- WEST SALEM [43.90, -91.08]				
	05/29/13 16:20 CST		0	Heavy Rain
	05/29/13 17:35 CST		0	Source: NWS Employee
In West Salem, 1.79 inches of rain fell in 45 minutes.				
LA CROSSE COUNTY --- WEST SALEM [43.90, -91.08]				
	05/29/13 16:20 CST		0	Heavy Rain
	05/29/13 22:10 CST		0	Source: NWS Employee
In West Salem, a total of 2.69 inches of rain fell.				
LA CROSSE COUNTY --- 1.7 E LA CROSSE [43.80, -91.22], 0.7 E LA CROSSE [43.80, -91.24], 1.1 NE LA CROSSE [43.81, -91.24], 1.9 ENE LA CROSSE [43.81, -91.22]				
	05/29/13 16:24 CST		0	Flood (due to Heavy Rain)
	05/29/13 18:30 CST		0	Source: Law Enforcement
Heavy rain caused street flooding to occur in the city of La Crosse and also caused some manhole covers to pop off.				
LA CROSSE COUNTY --- 0.7 N BARRE MILLS [43.84, -91.12]				
	05/29/13 16:27 CST		0	Hail (0.75 in)
	05/29/13 16:27 CST		0	Source: Public
CRAWFORD COUNTY --- 0.9 SE PRAIRIE DU CHIEN [43.04, -91.14]				
	05/29/13 16:47 CST		3K	Thunderstorm Wind (EG 55 kt)
	05/29/13 16:47 CST		0	Source: Public
Trees and power lines were blown down in Prairie du Chien.				
GRANT COUNTY --- 0.8 WNW BAGLEY [42.90, -91.14], 1.0 SE WYALUSING [42.92, -91.12]				
	05/29/13 16:51 CST		0	Tornado (EF0, L: 1.56 mi , W: 10 yd)
	05/29/13 16:54 CST		0	Source: Law Enforcement
A small tornado crossed the Mississippi River from Clayton County going through a campground north of Bagley before dissipating.				
GRANT COUNTY --- 0.5 E MT HOPE [42.97, -90.86]				
	05/29/13 17:10 CST		0	Thunderstorm Wind (EG 52 kt)
	05/29/13 17:10 CST		0	Source: Trained Spotter
A 60 mph wind gust occurred in Mt. Hope.				
CRAWFORD COUNTY --- 0.7 S MT STERLING [43.31, -90.93]				
	05/29/13 17:11 CST		0	Thunderstorm Wind (MG 50 kt)
	05/29/13 17:11 CST		0	Source: Amateur Radio
A 58 mph wind gust occurred in Mt. Sterling.				
VERNON COUNTY --- 1.4 SSE VIROQUA [43.53, -90.87]				
	05/29/13 17:30 CST		4K	Thunderstorm Wind (EG 50 kt)
	05/29/13 17:30 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Buildings and trees were damaged along County Road SS southeast of Viroqua. Another shed near Viroqua was also damaged.				
GRANT COUNTY --- 2.0 SW MUSCODA [43.16, -90.48]				
	05/29/13 17:35 CST		0	Funnel Cloud
	05/29/13 17:35 CST		0	Source: Trained Spotter
A funnel cloud was sighted southwest of Muscodia.				
RICHLAND COUNTY --- 1.4 S RICHLAND CENTER [43.31, -90.38], 0.7 S RICHLAND CENTER [43.32, -90.38]				
	05/29/13 17:52 CST		5K	Thunderstorm Wind (EG 55 kt)
	05/29/13 17:53 CST		0	Source: Law Enforcement
South of Richland Center, buildings and trees were damaged.				
JUNEAU COUNTY --- 0.5 E WONEWOC [43.65, -90.22]				
	05/29/13 18:19 CST		3K	Thunderstorm Wind (EG 55 kt)
	05/29/13 18:19 CST		0	Source: Law Enforcement
Trees and power lines were blown down in Wonewoc.				
JUNEAU COUNTY --- 2.8 S SOUTH NECEDAH [43.98, -90.07]				
	05/29/13 18:38 CST		0	Thunderstorm Wind (MG 56 kt)
	05/29/13 18:38 CST		0	Source: Trained Spotter
A wind gust of 65 mph occurred south of Necedah.				
ADAMS COUNTY --- 4.7 WSW BIG SPG [43.65, -89.72]				
	05/29/13 18:48 CST		2K	Thunderstorm Wind (EG 55 kt)
	05/29/13 18:48 CST		0	Source: Law Enforcement
Trees were blown down along County Road G and State Highway 23 southeast of Plainville.				
GRANT COUNTY --- 0.9 NE BAGLEY [42.91, -91.11], 1.6 ENE BAGLEY [42.91, -91.09], 1.6 ESE BAGLEY [42.90, -91.09], 1.1 ESE BAGLEY [42.89, -91.10]				
	05/29/13 21:36 CST		0	Flash Flood (due to Heavy Rain)
	05/29/13 23:30 CST		0	Source: Emergency Manager
Heavy rain caused water to spread over several roads in Bagley as the drainage system was not able to keep up the rain. Streams in the area were running very high.				
A small tornado crossed the Mississippi River from Iowa hitting a campground just north of Bagley (Grant County). This tornado was part of a larger severe weather outbreak that occurred across much of western Wisconsin during the afternoon and evening of May 29th. These storms developed in a warm and moist airmass behind a warm front that was moving north across the Upper Midwest. In addition to the tornado, a pole barn and other structures were damaged near Whitehall (Trempealeau County) and structural damage to buildings also occurred near Richland Center (Richland County).				
JACKSON COUNTY --- 2.3 E VAUDREUIL [44.31, -90.83], 1.7 E VAUDREUIL [44.30, -90.85], 1.6 NW PLEASANT VIEW [44.29, -90.85], 1.4 ESE VAUDREUIL [44.29, -90.86], 1.5 SE VAUDREUIL [44.29, -90.86], 1.4 NNW PLEASANT VIEW [44.29, -90.84], 1.9 E VAUDREUIL [44.30, -90.84], 2.4 N PLEASANT VIEW [44.30, -90.83]				
	05/30/13 12:45 CST		0	Flood (due to Heavy Rain)
	05/31/13 21:00 CST		0	Source: River/Stream Gage
Runoff from heavy rains pushed the Black River out of its banks in Black River Falls. The river crested over two feet above the flood stage at 49.31 feet.				
GRANT COUNTY --- 1.5 SSE LANCASTER [42.83, -90.71]				
	05/30/13 13:43 CST		0	Thunderstorm Wind (MG 61 kt)
	05/30/13 13:43 CST		0	Source: Law Enforcement
A wind gust of 70 mph occurred just south of Lancaster.				
RICHLAND COUNTY --- 2.6 ENE ORION [43.21, -90.38]				
	05/30/13 14:17 CST		2K	Thunderstorm Wind (EG 50 kt)
	05/30/13 14:17 CST		0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Trees were blown down west of Gotham near the Grant County line.				
ADAMS COUNTY --- 4.1 NW BIG FLATS [44.16, -89.86]				
	05/30/13 14:56 CST		3K	Thunderstorm Wind (EG 50 kt)
	05/30/13 14:56 CST		0	Source: Law Enforcement
Trees and power lines were blown down west of Big Flats.				
ADAMS COUNTY --- 0.7 N ADAMS [43.96, -89.82]				
	05/30/13 15:16 CST		3K	Thunderstorm Wind (EG 55 kt)
	05/30/13 15:16 CST		0	Source: Law Enforcement
Trees and power lines were blown down in Adams.				
ADAMS COUNTY --- 5.4 ENE WHITE CREEK [43.86, -89.77]				
	05/30/13 15:27 CST		3K	Thunderstorm Wind (EG 50 kt)
	05/30/13 15:27 CST		0	Source: Law Enforcement
Trees and power lines were blown down southwest of Grand Marsh.				
CRAWFORD COUNTY --- 5.5 S EASTMAN [43.09, -91.02]				
	05/30/13 16:55 CST		0	Thunderstorm Wind (EG 52 kt)
	05/30/13 16:55 CST		0	Source: Amateur Radio
An estimated wind gust of 60 mph occurred south of Eastman.				
VERNON COUNTY --- 0.9 SE BUD [43.56, -90.97]				
	05/30/13 17:25 CST		0	Thunderstorm Wind (EG 56 kt)
	05/30/13 17:25 CST		0	Source: Amateur Radio
An estimated wind gust of 65 mph occurred west of Viroqua.				
LA CROSSE COUNTY --- 1.7 SE WEST LA CROSSE [43.83, -91.23]				
	05/30/13 17:46 CST		2K	Thunderstorm Wind (EG 50 kt)
	05/30/13 17:46 CST		0	Source: Law Enforcement
Trees were blown down in the city of La Crosse.				
For the second straight day, thunderstorms developed during the afternoon across western Wisconsin. Some of these storms produced damaging winds from central Grant County northeast into Adams County. A wind gust of 70 mph occurred near Lancaster (Grant County).				
BUFFALO COUNTY --- 1.2 SE FOUNTAIN CITY [44.12, -91.70]				
	05/31/13 15:01 CST		0	Hail (0.88 in)
	05/31/13 15:01 CST		0	Source: Emergency Manager
BUFFALO COUNTY --- 5.6 N FOUNTAIN CITY [44.21, -91.70]				
	05/31/13 15:06 CST		0	Hail (1.00 in)
	05/31/13 15:06 CST		0	Source: Public
Quarter sized hail fell north of Fountain City.				
TREMPEALEAU COUNTY --- 1.0 W ELEVA [44.58, -91.49]				
	05/31/13 15:09 CST		0	Hail (0.88 in)
	05/31/13 15:09 CST		0	Source: Trained Spotter
Nickel sized hail and a 55 mph wind gust occurred just outside of Eleva.				
TREMPEALEAU COUNTY --- 0.5 W STRUM [44.55, -91.39]				
	05/31/13 15:28 CST		0	Hail (0.88 in)
	05/31/13 15:28 CST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - May 2013

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
TREMPEALEAU COUNTY --- 1.5 E ARCADIA ARPT [44.32, -91.42]				
	05/31/13 15:30 CST		0	Hail (1.25 in)
	05/31/13 15:30 CST		0	Source: Law Enforcement
Half dollar sized hail fell south of Independence.				
TREMPEALEAU COUNTY --- 0.7 N INDEPENDENCE [44.36, -91.42]				
	05/31/13 15:31 CST		0	Hail (1.00 in)
	05/31/13 15:31 CST		0	Source: Other Federal Agency
Quarter sized hail fell in Independence.				
TREMPEALEAU COUNTY --- 2.9 SSE ELK CREEK [44.39, -91.38]				
	05/31/13 15:36 CST		0	Hail (1.00 in)
	05/31/13 15:36 CST		0	Source: Trained Spotter
Quarter sized hail fell northeast of Independence.				
TAYLOR COUNTY --- 7.3 E PERKINSTOWN [45.19, -90.48]				
	05/31/13 16:29 CST		0	Hail (0.88 in)
	05/31/13 16:29 CST		0	Source: Law Enforcement
TAYLOR COUNTY --- 3.9 E PERKINSTOWN [45.20, -90.55]				
	05/31/13 16:31 CST		0	Hail (1.00 in)
	05/31/13 16:31 CST		0	Source: Public
Quarter sized hail fell east of Perkinstown.				
BUFFALO COUNTY --- 7.3 ESE WAUMANDEE [44.25, -91.57]				
	05/31/13 18:29 CST		0	Hail (0.88 in)
	05/31/13 18:29 CST		0	Source: Fire Department/Rescue
TREMPEALEAU COUNTY --- 2.4 SW ARCADIA ARPT [44.30, -91.49]				
	05/31/13 18:38 CST		0	Hail (0.88 in)
	05/31/13 18:38 CST		0	Source: Fire Department/Rescue
TREMPEALEAU COUNTY --- 0.3 SE WHITEHALL [44.37, -91.32]				
	05/31/13 18:54 CST		0	Hail (0.75 in)
	05/31/13 18:54 CST		0	Source: Law Enforcement
TREMPEALEAU COUNTY --- 0.6 ESE PIGEON FALLS [44.43, -91.21]				
	05/31/13 19:11 CST		0	Hail (1.00 in)
	05/31/13 19:11 CST		0	Source: Public
Quarter sized hail fell in Pigeon Falls.				
JACKSON COUNTY --- 2.4 NW MERRILLAN [44.47, -90.87]				
	05/31/13 19:44 CST		0	Funnel Cloud
	05/31/13 19:44 CST		0	Source: NWS Employee
A funnel cloud was spotted northwest of Merrilan.				

Multiple rounds of thunderstorms moved across western Wisconsin during the afternoon and evening of May 31st. These storms developed in a complex surface pattern across the Upper Midwest as a pre-frontal surface trough, dry line and cold front all passed through the area. The storms primarily produced large hail, although a funnel cloud was sighted near Merrilan (Jackson County). The largest hail reported was half dollar sized near Independence (Trempealeau County).